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ACCESSION NR: AP4037597

S/0056/64/046/005/1823/1828

AUTHOR: Andreyev, A. F.

TITLE: Thermal conductivity of the intermediate state of superconductors

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 5, 1964, 1823-1828

TOPIC TAGS: superconductivity, thermal conductivity, temperature jump, electron mean free path

ABSTRACT: To explain the character of the reflection of the electrons from the separation boundary between the normal and superconducting phases in a superconductor, which has been suggested as possibly explaining the temperature drop occurring when heat flows in the superconductor, and which has not been explained hitherto, it is shown that an effect similar to above-the-barrier reflection of quasiparticles occurs on the separation boundary, and that the probability

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ACCESSION NR: AP4037597

of this reflection is of the order of unity, in spite of the fact that the ratio of the width of the transition layer to the wavelength of the quasiparticles is quite large (~10⁴). Consequently, in the presence of heat flow, a temperature discontinuity occurs on each of the boundaries, and this gives rise to the observed additional thermal resistance in the intermediate state. This additional thermal resistance is calculated and is shown to increase exponentially with decreasing temperature and to be independent of the electron mean free path. The latter results are in contradiction with the work of S. Strassler and P. Wyder (Phys. Rev. Let. v. 10, 225, 1963) and agrees with the data of N. V. Zavaritskiy (ZhETF v. 38, 673, 1960). "In conclusion I thank A. A. Abrikosov, L. T. Gor'kov, I. Ye. Dzyaloshinskiy, L. F. Pitayevskiy, and I. M. Khalatnikov for a useful discussion of the work and for valuable remarks." Orig. art. has: 16 formulas and 1 figure.

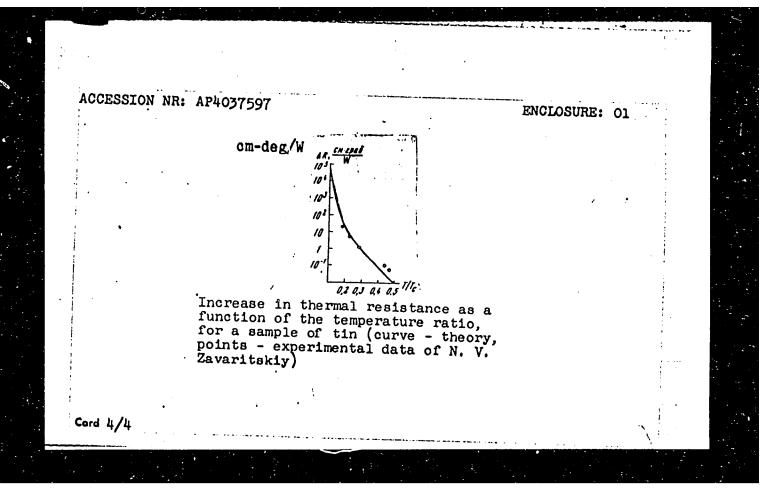
ASSOCIATION: Institut fizicheskikh problem Akademii nauk SSSR Cord 2/4

ACCESSION NR: AP4037597

(Institute of Physics Problems, Academy of Sciences SSSR)

SUBMITTED: 27Nov63 DATE ACQ: 09Jun64 ENCL: 01

SUB CODE: EM, GP NR REF SOV: 006 OTHER: 005



APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101510011-1"

L'22183-65 KBC(b)42/BYT(1)/BBC(1)/BAR(d) ASDA-5/AFVI/SSD/BSD/ASNF-2/BSDT LJP(c) 00

ACCESSION NRI AP5001845

8/056/64/047/006/2222/2228

AUTHOR: Andreyer, A. I.

TITLE: Thermal conductivity of the intermediate state of superconductors. II.

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 47, no. 6, 1964, 2222-2228

TOPIC TAGS: superconductivity, thermal conductivity, superconductor lamellar intermediate state, superconductor filamentary intermediate state

ABSTRACT: The first part of the paper was published in ZhETF v. 46, 1823, 1964. The aim of the second part is to show that the unusual character of the reflection of excitations leads to distinctive peculiarities of the heat conductivity of supersonductors in the intermediate state, when the heat transfer takes place along the interfaces between the phases. To this end, the author calculates the coefficients of thermal conductivity of the lamellar and filamentary structures of the intermediate state, assuming that the heat transfer occurs along the along the interfaces between the phases, for the case where the electron mean free path

Cord 1/2

1 22183-65 APS001845 ACCESSION NR: (1) is appreciably longer than the characteristic dimensions of the normal regions (a). It is shown that in the case of the lamellar structure the main contribution to the thermal conductivity is made by excitation moving parallel to the interfaces. In the filamentary case the main contribution comes from excitations moving at small angles to the filament axis. The coefficient of thermal conductivity of the Lamellar structure is independent of the electron mean free path, whereas that of the filamentary structure decreases with increasing like ln(!/a)/!. "I thank A. A. Abrikosov and I. M. Khalatnikov for a useful discussion of the work." Orig. art. has: 42 formulas. ASSOCIATION: Institut fisicheakikh problem Akademii nauk SSSR (Institute of Physical Problems, Academy of Sciences SSSR) 00 ENCL: 18Jun64 SUBMITTED: OTHER: 003 MR REF SOVE 005 SUB CODE: GP Cord 2/2

Number of operations required in studying the singular point of a differential equation using Frommer's method. Dif. urav. 1 no.9:1155-1176 S'65. (MIRA 18:10)

1. Leningradskiy institut tochnoy mekhaniki i optiki.

IJP(c) GG L 5338-66 EWT(1) UR/0056/65/049/002/0655/0660 ACCESSION NR: AP5021131 AUTHOR: Andrevey A. F. TITLE: Electron spectrum of the intermediate state of superconductors SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 2, 1965, 655-660 TOPIC TAGS: superconductivity, electron spectrum, critical point, specific heat, electron energy level, thermodynamic property ABSTRACT: The author determines the spectrum of low-lying energy levels of electronic excitations in superconductors in the intermediate state. It is assumed that the electronic excitations have energies that are small compared with the critical temperature of the superconducting transition in the absence of a magnetic field. It is shown that at energies on the order of v/a (v = Fermi velocity, a = thickness of normal layer) the quantization of the low-lying energy levels furnishes important information on the thermodynamic and other properties of the intermediate state. Expressions are obtained for the free energy of the normal layer; for the number of levels, for the normal magnetic field, and for the total free energy and the specific heat per unit volume of the intermediate state. The results show that at temperature s close to v/a the temperature dependence of the Card 1/2 00011136

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ACCESSION NR: AP5021131					12	
thermodynamic quantities c change, although the quant tions can produce noticeab to I. Ye. Dzyaloshinskiy, cussions." 4 Orig. art. has	ization or the end le effects also at L. P. Pitayevskiy,	ergy levels t higher te and I. M.	of the elector of the o	tronic ex "I am gr	cita- ateful	
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SOURCE CODE: UR/0056/66/051

UR/0056/66/051/005/1510/1521

AUTHOR: Andreyev. A. F.

ORG: Institute of Physics Problems, Academy of Sciences, SSSR (Institut Fizicheskikh problem Akademii nauk SSSR)

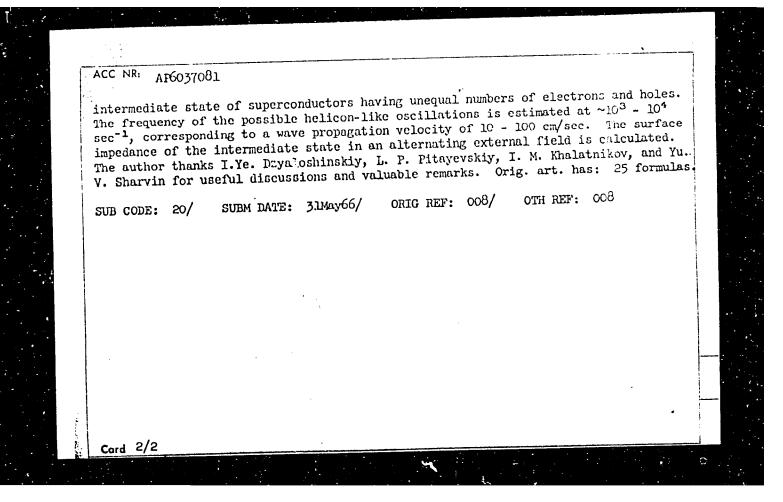
TITLE: Electrodynamics of the intermediate state of superconductors

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 51, no. 5, 1966, 1510-1521

TOPIC TAGS: superconductivity, electrodynamics, electromagnetic property, resistivity, surface property, squace ductor

ABSTRACT: The author obtains a complete system of macroscopic equations describing the electromagnetic properties of the intermediate state of a superconductor of the first kind at low temperatures. These equations are used to determine the de resistance of the superconductor. In a weak current, the resistance of the intermediate state is equal to the resistance of the normal phase multiplied by its concentration. With increasing current, the influence of the magnetic field on the structure of the intermediate state becomes important and the resistance becomes dependent on the current, reaching ultimately the characteristic of the pure normal metal. In the calculation of the resistance, the effect of the magnetic field produced by the current on the intermediate-state structure is taken into account. It is shown that the electromagnetic wave, similar to a helicon in a normal metal, can propagate in the

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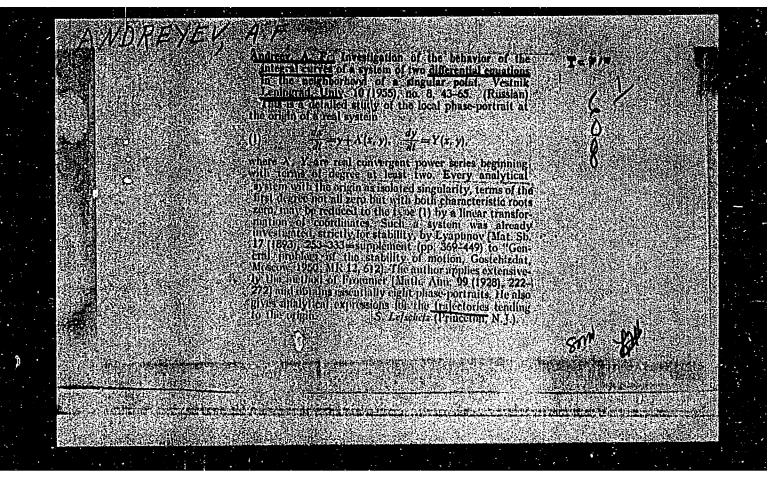
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ANDEYEV, A. T.

Solution of the Problem of Center and Flous in a Sertain Case, A.F.Anhayev, Leningrad. Frik Hat i Hekh, Vol. 17, No. 3, op 333-37, Hay/Jun 53

Discusses the nonlinear system dx/dt=y+Ax3+Rx2+Cxy2+Dy3, dy/dt=xx3+Ix2y+Ixx2+Ixy3. Demonstrates that in order that origin of coordinates be the center of this system it is necessary and sufficient that the cyster satisfy the following conditions: X<O, 3A+L=O, 2A(B+X)+K(C+3N)=O, (U+X) (CAB) -ANU-X-N)=O. Wites related works of N.A.Sakharnikov ("Frommer's Conditions for the Existence of Center," ibid, Vol.12, No. 5, 1940; "Solution of the implem of Center and Focus in a Certain Case," ibid, Vol. 14, No. 6, 1950).

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43-58-13-7/13 Andreyev, A.F. AUTHOR: On the First Problem of Distinction in the Theory of Frommer (O pervoy probleme razresheniya v teorii Frommera) TITLE: PERIODICAL: Vestnik Leningradskogo universiteta, Seriya matematiki, mekhaniki i astronomii, 1958, Nr 13(3), pp 84-86 (USSR) The author considers the equation ABSTRACT: $\frac{dy}{dx} = \frac{Q(x,y) + Q(x,y)}{P(x,y) + P(x,y)}$ (1)P(x,y) and Q(x,y) are homogenous polynomials of the degree $n \ge 1$ in x and y with real coefficients. The real functions p(x,y) and q(x,y) are defined in D: $0 \le r < R^*$, $r^2 = x^2 + y^2$, and satisfy any conditions which guarantee a unique solution of the Cauchy problem $x = x^0$, $y = y^0$ for t = 0, x^0 , y^0 D for the system $\dot{x} = P(x,y) + p(x,y), \quad \dot{y} = Q(x,y) + q(x,y).$ Furthermore it is $p(x,y) = O(r^n)$ and $q(x,y) = O(r^n)$ for $r \to 0$. $r \frac{d\varphi}{dr} = \frac{F(\varphi) + f(r, \varphi)}{\Gamma(r, \varphi)},$ (2) Card 1/3

On the First Problem of Distinction in the Theory of Frommer 43-58-13-7/13

where

$$G(\varphi) = P(\cos \varphi, \sin \varphi)\cos \varphi + Q(\cos \varphi, \sin \varphi)\sin \varphi$$

 $F(\varphi) = Q(\cos \varphi, \sin \varphi)\cos \varphi - P(\cos \varphi, \sin \varphi)\sin \varphi$

$$\Gamma(\mathbf{r}, \boldsymbol{\varphi}) = \mathbf{v}(\boldsymbol{\varphi}) + \mathbf{g}(\mathbf{r}, \boldsymbol{\varphi}),$$

be the equation (1) in polar coordinates. Here let

$$F(0) = F'(0) = \dots = F^{(k-1)}(0) = 0$$

 $F^{(k)}(0) \cdot G(0) < 0$

where k is odd.

Furthermore let $g(\mathbf{r},\,\varphi)$ satisfy the Lipschitz condition in φ in a domain N₂: $0 < \mathbf{r} \le \mathbf{R}, -\Delta \le \varphi \le \Delta$ with sufficiently small R and Δ .

Under the given assumptions the following theorem is valid: In order that (2) possesses a single solution

(3)
$$\varphi = \varphi_1(r), \ \ \varphi \to 0 \text{ for } r \to 0,$$

Card 2/3

 On the First Problem of Distinction in the Theory of Frommer

43-58-13-7/13

it is sufficient that the equation

$$r \frac{d \varphi}{dr} = \frac{F(\varphi_1(r))}{\Gamma(r, \varphi_1(r))} + \frac{f(r, \varphi)}{\Gamma(r, \varphi)}$$

admits only the solution (3).

As a conclusion of this theorem the author obtains certain conditions which have to be satisfied by p,q,f,g in order that in the initial point there ends a single integral curve of (1) with the direction $\psi = 0$.

There are 4 references, 2 of which are Soviet and 2 German.

SUBMITTED: February 25, 1957

1. Mathematics -- Theory

Card 3/3

AUTHOR:

Andreyev, A.F., Bogdanov, Yu.S.

SOV/42-13-3-4/41

TITLE:

On the Continuous Dependence of the Solution of the Cauchy Problem from the Initial Conditions (O reprezyvnoy zavisimosti

resheniya zadachi Koshi ot nachal nykh dannykh)

PERIODICAL:

Uspekhi Matematicheskikh Nauk, 1958, Vol 13, Nr 3, pp 165-166 (USSR)

ABSTRACT:

By the functions of a family X let T = [0, 1] be mapped onto a locally compact metric space P, let T P = Q. Defining X by a continuous differential system, then from the uniqueness of the solution of the Cauchy problem in X for arbitrary initial conditions of Q there follows the continuous dependence of the curves of X on the initial conditions. Myshkis and Grinfel'd [Ref 2] showed that if P is onedimensional, then this continuous dependence exists too if X cannot be defined by a continuous system; further that this continuous dependence is indiffed also in all natural boundary problems where the problem is examined. At the same time for n = 2 they gave an example where this continuous dependence is no longer walid. They put the question which property of the

Card 1/2

On the Continuous Dependence of the Solution (Cont.) SCV/42-13-3-4/41

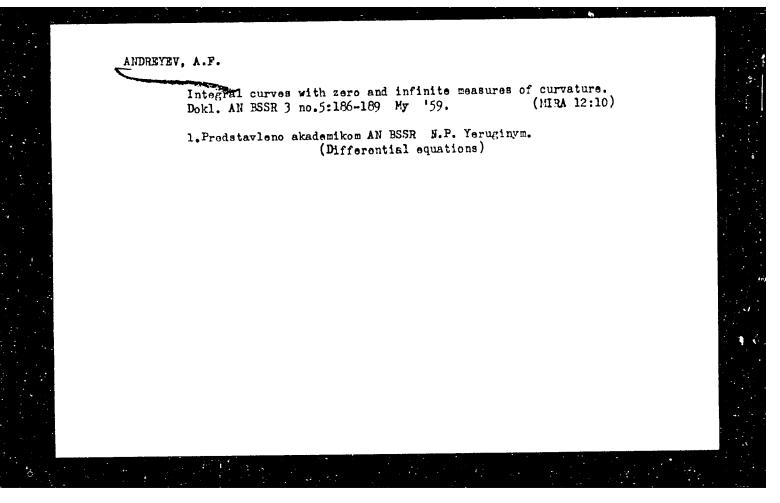
"natural" boundary value problems in this special example is not satisfied and causes the discontinuity of the dependence on the initial conditions. The submors assert that this pro-

perty is the local compactness of the set X.

There are 2 Soviet references.

SUBMITTED: February 12, 1957

Card 2/2



16(1) SOV/43-59-7-2/17 AUTHOR: Andreyev, A.F. On the First Decision Problem in the Theory of Frommer (O pervoy TITLE: probleme razlicheniya v teorii Frommera) PERIODICAL: Vestnik Leningradskogo universiteta, Seriya matematiki, mekhaniki i astronomii, 1959, Nr 7(2), pp 18-25 (USSR) Given the equation AESTRACT: $\frac{dy}{dx} = \frac{Q(x,y) + q(x,y)}{P(x,y) + p(x,y)}$ (1)or in polar coordinates $r \frac{d\phi}{dr} = \frac{F(\phi) + f(r,\phi)}{G(\phi) + g(r,\phi)}$ In the development $F(\phi) = c\phi^k + c_1\phi^{k+1} + \dots$ let k be arbitrarily odd. Without assuming the analyticity of p(x,y), q(x,y) the author gives sufficient conditions that (2) has only the unique solution $\Psi = \Psi_1(r)$ ($\Psi_1 \rightarrow 0$ for $r \rightarrow 0$). Very numerous assumptions are made. A class of functions p and q is given for which the Card 1/2

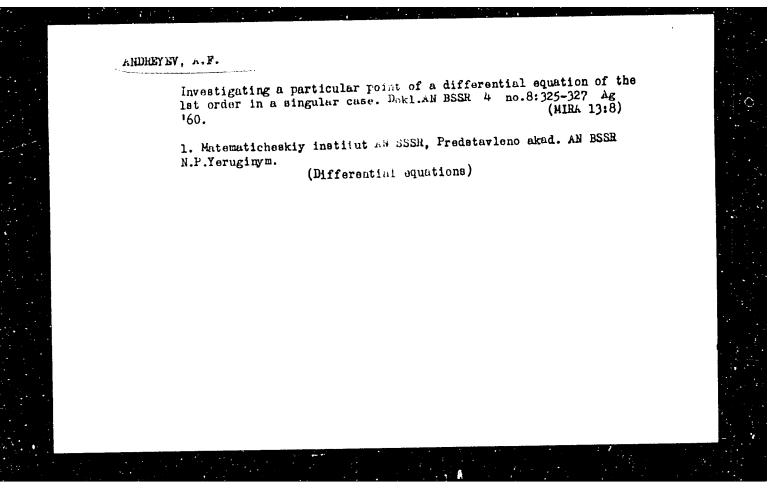
On the First Decision Problem in the Theory of Frommer SOV/43-59-7-2/17

uniqueness of the solution does not depend on the multiplicity of the singular direction. The author mentions M.Frommer

[Ref 1] and N.B.Khaimov.

There are 5 references. 2 of which are Soviet, 1 Italian, and 2 German.

SUBMITTED: June 28, 1957



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16.5600

AUTHOR:

Andreyev, A. F.

TITLE:

TEXT:

On integral curves with zero or infinite measures

of curvature

PERIODICAL: Leningrad. Universitet. Vestnik. Seriya matematiki, mekhaniki i astronomii, no. 1, 1960, 1-13

The author considers the equation

$$\frac{\mathrm{d}y}{\mathrm{d}x} = \frac{\mathrm{P}(x,y)}{\mathrm{Q}(x,y)} \tag{1}$$

where P and Q are series in terms of integer powers of x and y which converge in a certain neighborhood of (0,0) and vanish in (0,0). Let $1 \le v < +\infty$ be the possible order of curvature of the integral curves reaching the singular point (0,0). After the transformation $y = u(x) x^{v}$ (1) is transformed into

$$\frac{du}{dx} = \frac{x^{1} \cdot \left[P_{1}(u) + x^{1} \cdot R_{1}(x, u) \right]}{x^{1} \cdot \left[P_{2}(u) + x^{1} \cdot R_{2}(x, u) \right]}$$
(2)

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On integral curves with zero ...

where 1_1 , 1_2 , λ_1 , λ_2 are positive numbers,

where
$$I_1$$
, I_2 , I_1 , I_2
 $P_1(u) = \sum_{i=m_1}^{n_1} a_i^{(1)} u^i$, $P_2(u) = \sum_{i=m_2}^{n_2} a_i^{(2)} u^i$

and $R_1(x,u)$, $R_2(x,u)$ are analytic functions in u and quasi-analytic functions in x.

Theorem 1: Assume that the equation (2) satisfies one of the conditions:

1.) $l_1 \neq l_2 - 1$ or 2.) $l_1 = l_2 - 1$, $m_1 \leq m_2 + 1$ or 3.) $l_1 = l_2 - 1$, $m_1 > m_2 + 1$, $m_1 - m_2$ odd, $a_1 = m_2 + 1$ or 3.) $l_1 = l_2 - 1$, or 3.) $l_1 = l_2 - 1$, $l_2 = l_2 - 1$, $l_3 = l_3 - 1$, $l_4 = l_3 - 1$, $l_5 = l_3 - 1$, $l_6 = l_3 - 1$, $l_7 = l_2 - 1$, $l_8 = l_3 - 1$, $l_8 = l_3$

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On integral curves with zero . . .

$$1_{1}=1_{2}-1$$
, $m_{1}>m_{2}+1$ a.) $m_{1}-m_{2}$ odd, $a_{m_{1}}$ $a_{m_{2}}>0$ (3)

it possesses an infinite number of such integral curves.

Theorem 2: Let the equation (2) satisfy one of the conditions:

1.)
$$l_1 \neq l_2 - 1$$
, or

2.)
$$l_1 = l_2 - 1$$
, $n_1 \ge n_2 + 1$, or (19)

2.)
$$1_1 = 1_2 - 1$$
, $n_1 \ge n_2 + 1$, or
3.) $1_1 = 1_2 - 1$, $n_1 < n_2 + 1$, $n_2 - n_1$ odd, $a_{n_1}^{(1)} a_{n_2}^{(2)} > 0$.

Then (1) possesses no integral curves in $x \ge 0$ which reach the point (0,0) with the order of curvature γ and with infinite measure.

point (0,0) with the order of curvature
$$\sqrt{a}$$
 and with infinite meas of curvature. In other cases

a.) n_2 - n_1 odd, $a_1^{(1)}$ $a_2^{(2)} < 0$
 $1_1^{=1}2^{-1}$, $n_1 < n_2^{+1}$,

b.) n_2 - n_1 even

Card 3/4

Card 3/4

89495 S/043/60/000/001/001/014 C 111/ C 333

On integral curves with zero ...

there exists an infinite number of such integral curves.

The author mentions J. S. Kukles. There are 4 references: 3 Soviet-

bloc and 1 non-Soviet-bloc.
SUBMITTED: September 19, 1958

Card 4/4

3..899 16.3400 \$/043/60/019/004/002/015 C 111/ C 333 AUTHOR: Andreyev. A. F. TITLE: Frommer's Method and one of its Applications PERIODICAL: Vestnik Leningradskogo universiteta, Seriya matematiki. mekhaniki i astronomii, 1960, Vol. 19, No. 4, pp. 37-51 TEXT: The author considers the equation (1.3) $\frac{dy}{dx} = \frac{1}{y} \{ [a + f(x)] x^{x} + [b + \varphi(x)] x^{\frac{1}{y}} + \varphi(x,y) y^{2} \}$ where 1.) α . β , a and b are real constants, $\alpha > 0$, $\beta > 0$, a $\neq 0$; b $\neq 0$, if $\alpha \ge 2\beta + 1$; 2.) f(x) and $\varphi(x)$ are defined on $0 \le x < x^*$ and continuous; $f(0) = x^*$ $\varphi(0) = 0;$ 3.) $\Psi(x,y)$ is defined and continous in $0 \le x < x^*$, $|y| < y^*$ and there satisfies the Lipschitz condition in y The author shows that the topological structure of the integral curves of (1.3) in the right semineighborhood of (0.0) is generally determined by a, b, \propto and β In the exceptional case: Card 1/3

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\$/043/60/019/004/002/015 C 111/ C 333

Frommer's Method and one of its Applications

$$\alpha = 2 \beta + 1$$
, $b^2 + 4a(\beta + 1) = 0$,

however, the form of the integral curves depends on f(x) and $\varphi(x)$, and that: if for sufficiently small x>0 and v it is

(4.18)
$$\left\{ f(x) + \left[\frac{b}{2(\beta+1)} - v \right] + \varphi(x) \right\} \leq \frac{c_1}{\ln^2 x}, \quad 0 < c_1 < c_1 < c_2 < c_2 < c_3 < c_4 < c_4 < c_4 < c_5 < c_5 < c_5 < c_6 < c_6 < c_6 < c_7 < c_8 < c_9 < c_9$$

$$<\frac{b^2}{16(\beta+1)^3}$$
.

then (1.3) possesses in the half plane x > 0 infinitely many solutions of the form

(4.14)
$$y = \frac{b}{2(\beta+1)} x^{\beta+1} + o(x^{\beta+1})$$
;

if, however, for sufficiently small x > 0 and v it is

Card 2/3

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Frommer's Method and one of its Applications

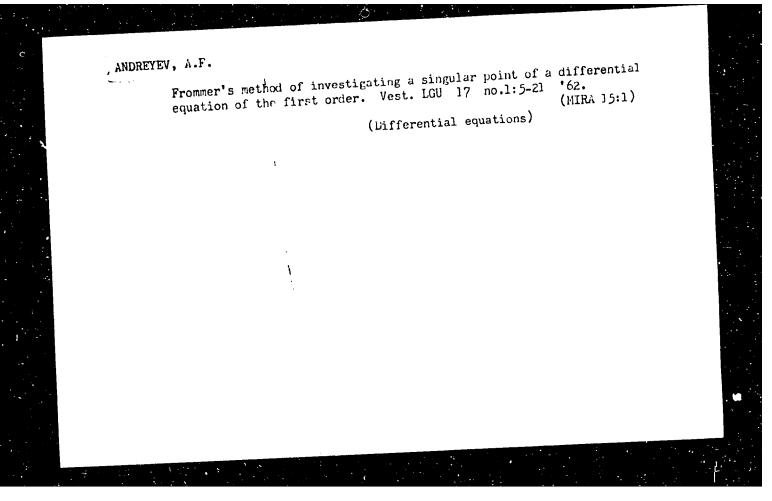
$$(4.19) \qquad \left\{ f(x) + \left[\frac{b}{2(\beta+1)} - v \right] \varphi(x) \right\} \ge \frac{c_2}{\ln^2 x} .$$

$$c_2 > \frac{b^2}{16(\beta + 1)^3}$$

then such solutions do not exist.

There are 7 references: 3 Soviet, 1 American, 1 French, 1 Italian and 1 German

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16.3500

AUTHOR:

Andreyev, A. F.

TITLE:

Uniqueness theorem for a Frommer normal domain of the second

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 142, no. 4, 1962, 754 - 757

TEXT: It is demonstrated that the equation

 $d(r)\partial \varphi/\partial r = \phi(\varphi) (1+\beta(r,\varphi)) + \psi(r,\varphi) = \psi(r,\varphi)$

has an unambiguous 0-curve in the domain $0 < r \le \rho$, $- \emptyset \le \rho \le \delta$ if the following conditions are fulfilled: 1) The conditions of the theorem of P.

2) $\psi(\mathbf{r}, \varphi)/\omega^{c}(\mathbf{r}) \rightarrow 0$ for $\mathbf{r} \rightarrow 0$, $\omega(\mathbf{r}) \in \mathbb{C}^{1}$, $\omega(\mathbf{r}) > 0$, $\omega'(\mathbf{r}) > 0$, $\omega(\mathbf{r}) \rightarrow 0$ for $\mathbf{r} \rightarrow 0$.

2) $\psi(\mathbf{r}, \varphi)/\omega^{c}(\mathbf{r}) \rightarrow 0$ for $\mathbf{r} \rightarrow 0$, $\psi(\mathbf{r}, \varphi_{2}) - \psi(\mathbf{r}, \varphi_{1}) \leq \frac{\alpha}{k}/(\mathbf{r})$ $(\varphi_{2} - \varphi_{1})$ for $\varphi_{2} = 0$. $\varphi_2 > \varphi_1$, $\Lambda(\mathbf{r}) \leq \alpha(\mathbf{r}) \omega'(\mathbf{r}) / \omega'(\mathbf{r})$.

There are 11 references: 9 Soviet and 2 non-Soviet. The reference to the Card 1/2

ACC NR: AP6023632 AUTHOR: Andreyev, A. F.	SOURCE CODE: UR/0386/66/004/001/0007/001	, ,
OKG: Institute of Physics Proble problem Akademii nauk SSSR)	ems, Academy of Sciences SSSR (Institut fizicheskikh	
TITLE: Oscillations of the inter	rmediate state of supperconductors 1	
SOURCE: Zhurnal eksperimental'no Prilozheniye, v. 4, no. 1, 1966,	oy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. 7-11	
COPIC TAGS: superconductivity, prion, indium, tin	phase transition, relaxation process, quantum oscilla	
on a metal intermediate between the erturbation that distorts the state of the condition of the condition of the boundaries, and it is shown at a strong wavelength is much and whose damping takes place over the erturn of these oscillations is derivations used in the article metals.	the relaxation of perturbations that may be produce the normal and superconducting states, following a tratified structure (alternating layer of superconequation of motion of the interphase boundaries is deditions that must be satisfied by Maxwell's equations on that the relaxation is accompanied by damped oscillarger than the thickness of the normal-phase layer are a distance of the order of the wavelength. The servery similar to the spectrum of helicon waves. The make it also possible to solve the problem of the ormal phase in the superconductor, and explains some	

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ACC NR _i	AP6018822 SOURCE CODE: UR/0056/66/050/005/1420/1424	
AUTHOR	Andreyev, A. F.; Bruk, Yu. M.	53 Po
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TITLE:	Sound absorption in the intermediate state of superconduction	ctors'/
SOURCE	Zh. eksper. 1 teor. fiz. v. 50, no. 5, 1966, 1420-1424	
TOPIC T	AGS: superconductor, sound absorption, heat absorption, stion, intermediate frequency, eddy current	вound
by move current in this at low ness ar absorpt	T: Propagation of sound in the intermediate state is accomment of the interface between the phases. As a result, eas appear in the normal layers. The Joule heat which is like case leads to additional absorption of sound. It is show acoustical frequencies ($\delta\gg\alpha$ where δ is the skin-layer to α is the spacing of the intermediate state structure) ion is proportional to the square of the frequency, and at all values of α , it exceeds the ordinary absorption attributed.	ddy iberated wn that thick- the t not

t	o the ele	ectron absor	viscosity. rption is pro	At high froportional	equencies ($\delta \ll \epsilon$), the	0
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L' 41.607-66 EWT(m)/EWP(t)/ETI INP(c) SOURCE CODE: UR/0056/66/050/005/1415/1419 ACC NR: AP6018821 AUTHOR: Andreyev, A. F. ORG: Institute of Physics Problems, Academy of Sciences, SSSR (Institut fizicheskikh problem Akademii nauk SSSR) TITIE: Surface tension of weak solutions of helium isotopes SOURCE: Zh eksper i teor fiz, v. 50, no. 5, 1966, 1415-1419 TOPIC TAGS: liquid helium, surface tension, Hamiltonian, impurity level, isctofic ABSTRACT: The author shows that the quantum character of liquid He4 at low temperatures makes it possible to determine the change produced in its surface tension by dissolution of sufficiently small quantities of He3 impurities. It is shown that at short distances from the surface the Hamiltonian acquires an additional coordinatedependent term. An analysis of the equation for the wave function of the impurity with allowance for this term shows that the surface tension decreases with increasing impurity concentration if surface impurity levels are present, and increases if there are no such levels. Since available experimental data give grounds for assuming the existence of surface levels for the He⁹ atom in liquid He⁴, it can be concluded that the change in the surface tension is negative in this case. The experimental data likewise indicate that there are no surface levels in solutions of He4 in He3. The author thanks L. P. Gor'kov, I. Ye. Dzyaloshinskiy, and L. P. Pitayevskiy for a useful discussion. Orig. art. has: 21 formulas. SUB CODE: 20/

AEDUVALIYEV, A.; KHAYRUTDIMOVA, M.Kh.; ANDREYEV, A.G.; SULTAMOV, A.S.

Thermosetting resin from furfuryl alcohol and furfurola. Uzb.
khim. zhur. no.4:53-57 '58. (MIRA 11:12)

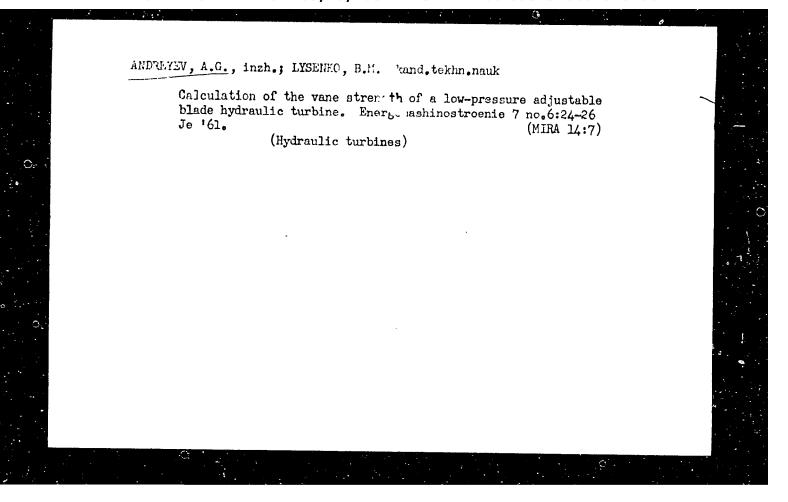
1.Institut khimii AN UzSSR.
(Resins, Synthetic) (Furfuryl alcohol) (Furaldehyde)

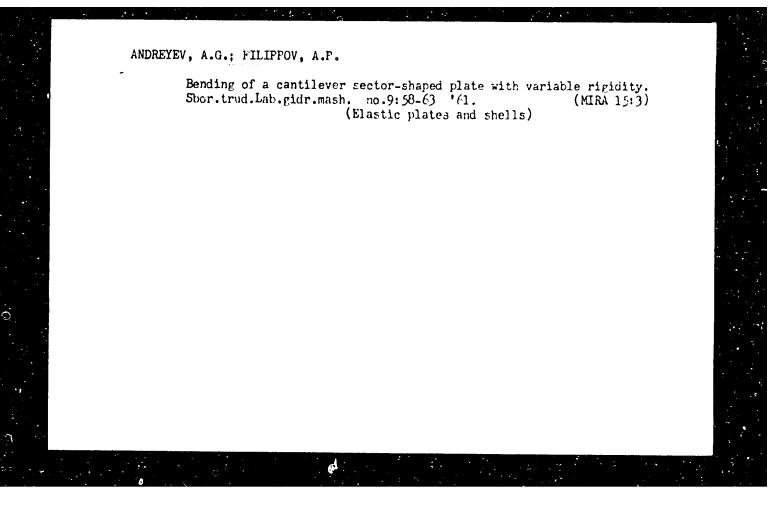
ABDUVALIYEV, A.A.; KHAYRUTDIROVA, M.Kh.; ANDREYEV, A.G.; SULTANOV, A.S.

Method for the production of glue for repairs of wires with polyvinyl chloride insulation. Uzb, khin. zhur. no.3:72 '59.

(MIRA 12:9)

(Electric wire, Insulated-Haintenance and repair)





s//31/61/000/009/003/005 1034/1234

AUTHOR:

Androyev, A.G.

TITIE:

Concerning the effects of uneven heating on stresses in turbine

disks

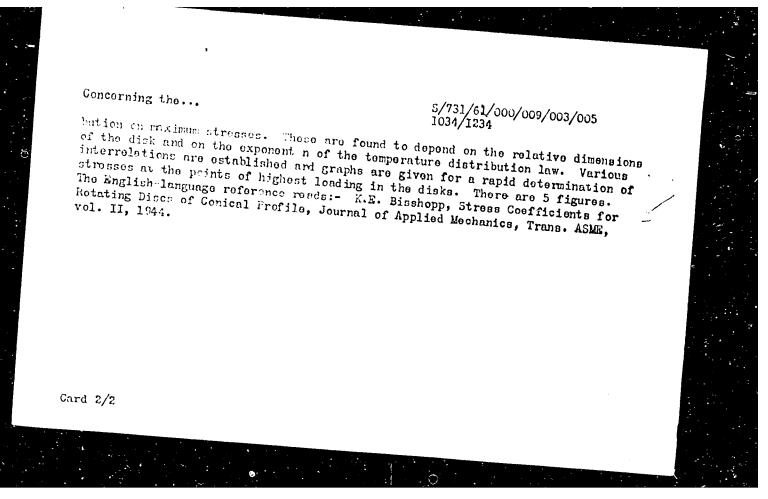
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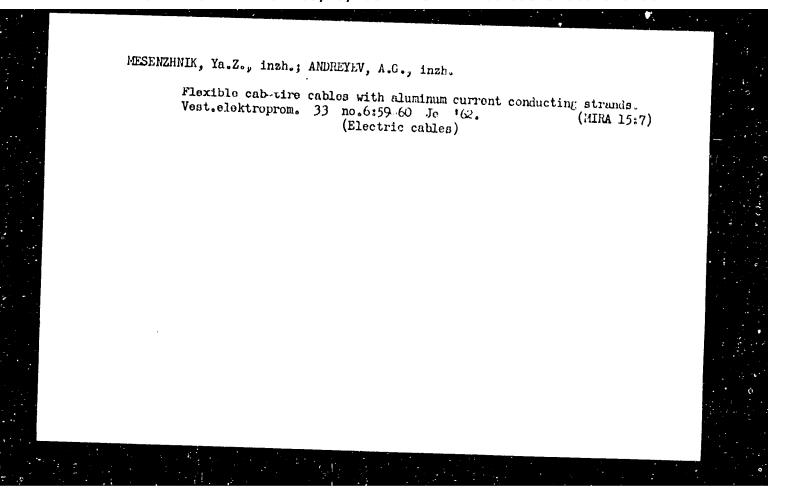
Akademiya nauk Ukrains'keyi RSR. Laboratoriya gidravlicheskikh

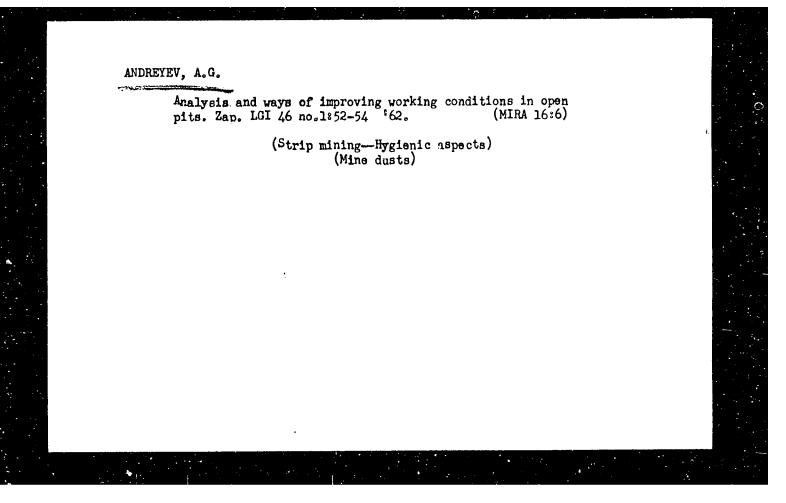
mashin. Sbornik trudov, no. 9. 1961. 103-112.

TEXT: The increased dimensions of modern steam and gas turbines leads to increased stresses in their structural elements. Special importance attaches to temperature stresses in turbine disks. The influence of the disk profile and of the radial distribution pattern of temperature on the stresses are evaluated. This is done by juxtapesing the circumferential stresses at the rim and at the hub of disks of 3 different profiles (constant thickness, hyperbolical and conical) under four different laws of temperature distribution (linear, and 2nd, 3rd and 4th-power parabolas). General expressions are derived for circumferential temperature stresses on the outer and inner parts of disks and make possible the evaluation of the effects of disk form and temperature distri-

Card 1/2







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		AUTHOR: Vasil'yeva, N. V.; Stergiu, G.	K.; Usmanov, Kh. U.; N	adol'skiy, Ya. V.;	•	
		Kostyushko, G. A., Andreyev, III			! !	
		TITLE: A method for vulcanizing rubber	stock. Class of no.	55, 61		
		SOURCE: Byulleten' izobreteniy i tovarn		1	ľ	
		TOPIC TAGS: rubber vulcanization, polyconation and the state of the st		vulcanizing rubber	!	
		stock based on polychloroprene a vale	f unleanization accele	erants As provided by		
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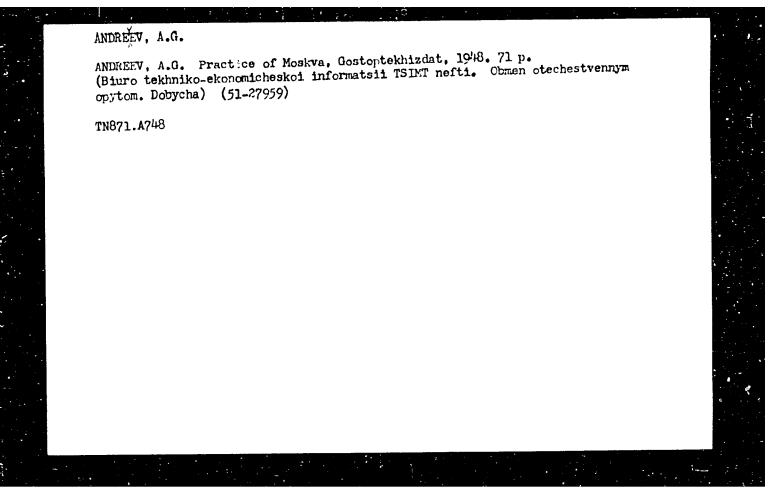
ANDREYEV, A. G.; KCTICV, V. S.

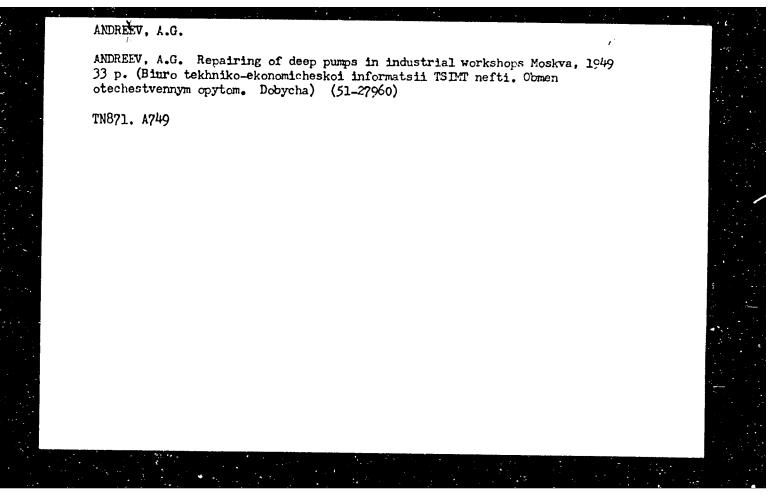
Geology

"The Practice of Employing Reduction-Gear Pumping Jacks of the Standard Series", Gostopthizdat, 1948.

Summary No. 60, 26 May 152, BR-52056899

SO: Monthly List of Russian Accessions, Library of Congress, 1953, Uncl.





ANDREYEV, A.G.

25061 ANDREYEV, A.G. Uluchsheniye Priyemov Yarovizatsii Semyan Yarovoy I Ozimoy Viki I Vchet Vliyaniya ee na Kolichestwo Zelenoy Massy I Kachestwo Semyan.-V Ogl: Andreyeva A.G. V SB: Voprosy Kormodobyvaniya . Vyp. 2.M., 1949, S. 105.

So: Letopis 'No 33, 1949

ANDREYEV, A.G.; MUSAYEV, I.M., redaktor; UDALYY, A.M., tekhnicheskiy re-

[Small-size compressor lifts] Malogabaritnye kompressornye lifty.
Baku, Gos.nauchno-tekhn.izd-vo neftianoi i gorno-toplivnoi lit-ry,
Azerbaidzhanskoe otdelenie, 1950. 15 p. (MIRA 8:4)

(Oil wells--Gas lift)

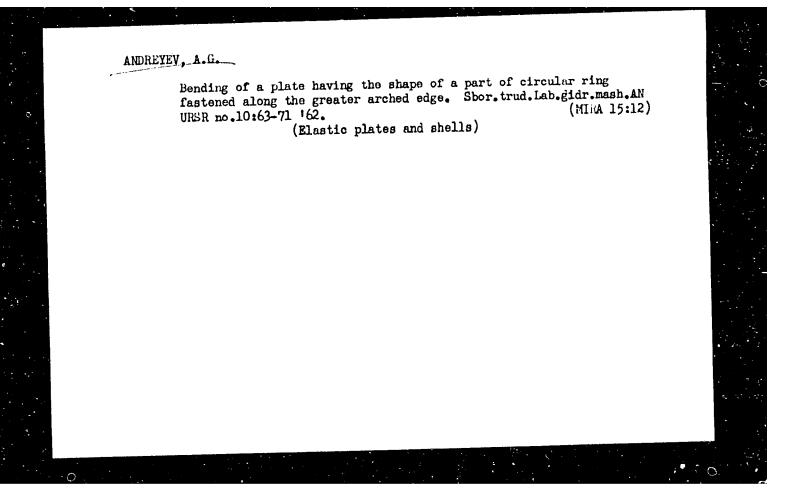
ANDREYEV.A.G.: LAVRUSHKO.P.N., redaktor: HEKMAN.Yu.K., rede>tor;

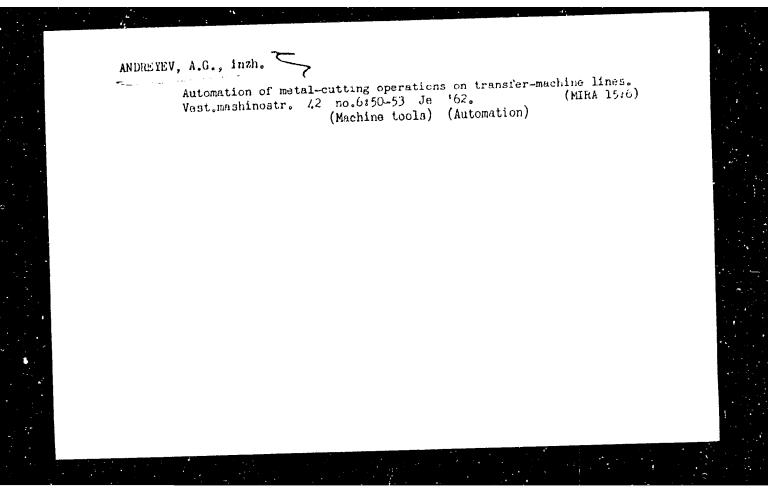
TROFINOV.A.V., teihnicheskiy redaktor

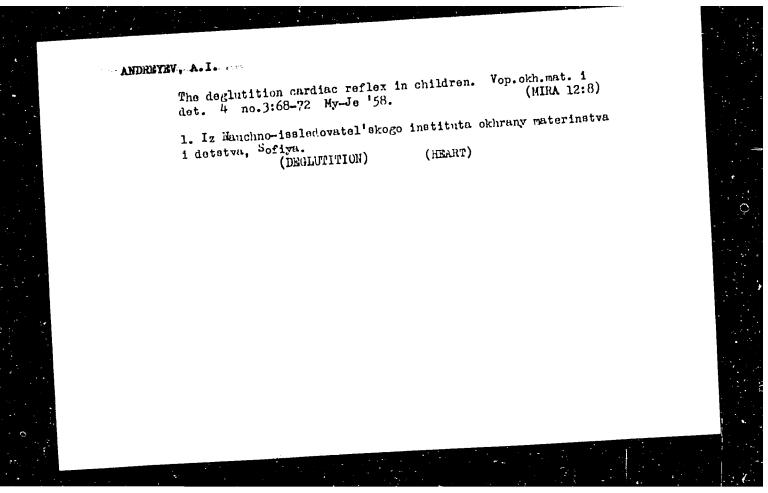
[Ringineer's manual on petroleum extraction] Spravochnik inzhenera po dobyche nefti. Moskva, Gos.nauchno-tekhn.izd-vo neftianoi i gorno-toplivnoi lit-ry, 1953. 173 p. (MIRA 9:2)

(Petroleum engineering)

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ANDR'YEV, A.I., starshiy nauchnyy sotrudnik (Sofiya)

Therapeutic and preventive role of training during the acute stage of rheumatic fever in children. Med.sestra 17 no.3:28-30 Mr '58.

(RHEUMATIC FEVER) (PEDIATRIC NURSING)

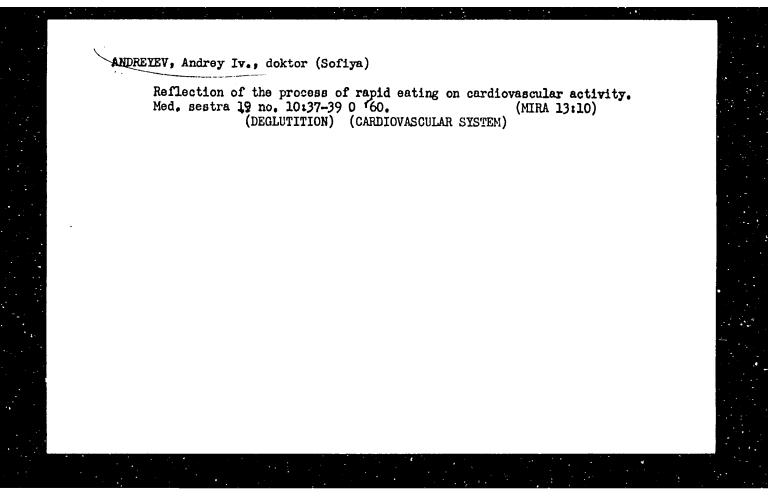
(NIRA 11:4)

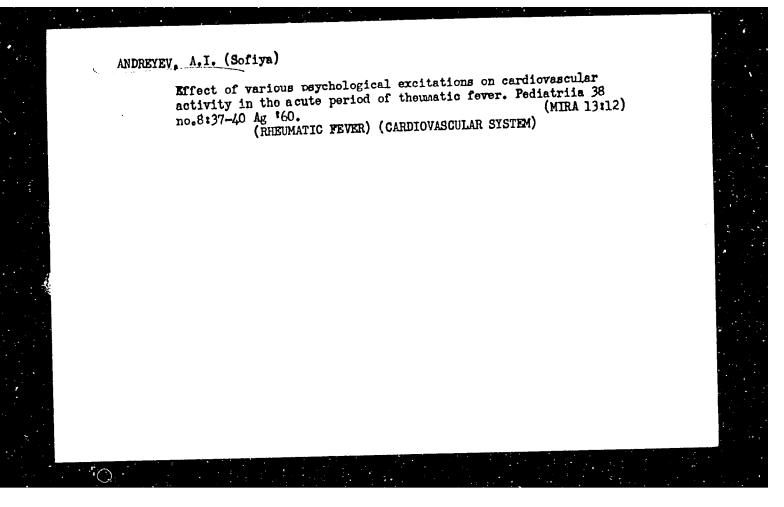
ANDREYEV, A.I., starshiy nauchnyy sotrudnik

Biffect of the emotions on the conditional in the acute stage of rheumatic fever. Med.seatra 17 no.8:24-26 Ag '58 (MIRA 11:8)

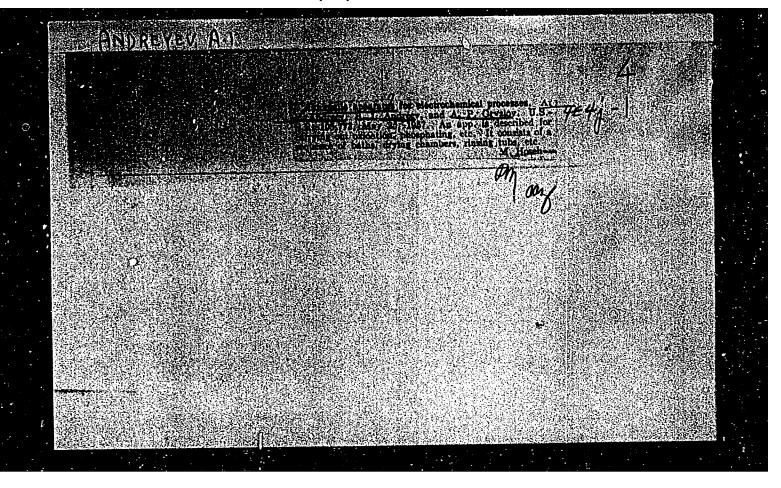
1. Iz Nauchno-isaledovatel'skogo institute okhrany materiastva i detatva Sofiya.

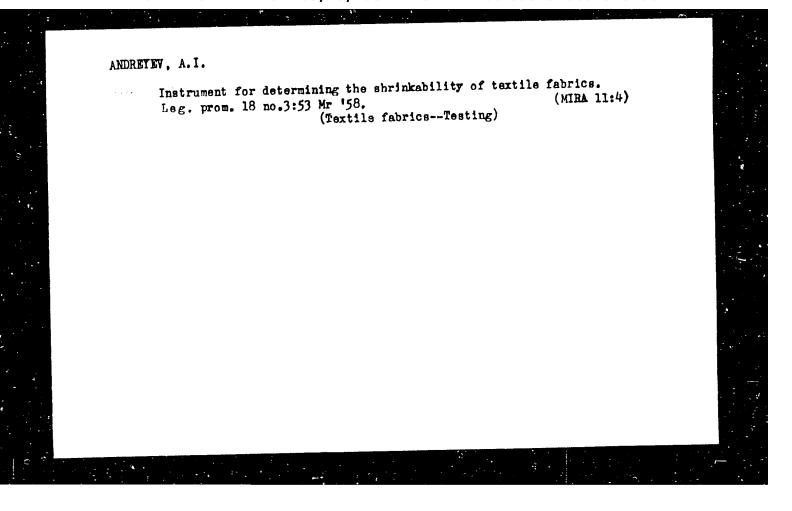
(CARDIOVASCULAR SYSTEM-DISHASES-PSYCHOSOMATIC ASPRCTS)





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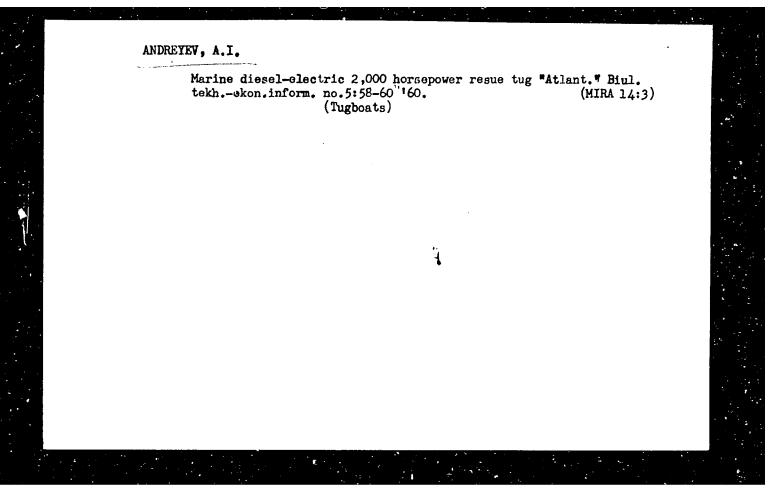




MINKIN, Anatoliy Samuilovich, kand. tekhn. nauk; GLAUBERZON, Yevgeniy Mironovich; ANDREYEV, A.I., red.; FREGER, D.P., red. izd-va; GVIRTS, V.L., tekhn. red.

[Repair and operation of certain kinds of machines and electric equipment at garment factories in Leningrad] Remont i expluatation ekotorykh vidov tekhnologicheskogo i elektrotekhnicheskogo oborudovaniia na shveinykh fabrikakh Leningrada; obzor. Leningrad, 1961. 87 p. (MIRA 14:7)

(Leningrad-Clothing industry)



IONONOSOV, M.V. [deceased]; VAVILOV, S.I. [deceased], akademik, redaktor;

KRAYKTS, T.P., redaktor; VINOGRADOV, V.V., akademik, redaktor;

TOPCHIEEV, A.V., akademik, redaktor; BARRHUDAROV, S.G., redaktor;

AMBREYSV, A.I., redaktor; BLOCK, G.P., redaktor; KNYAZEV, G.A.,

redaktor; CHENAKAL, V.L., redaktor; SHAPRANOVSKIY, I.I., redaktor

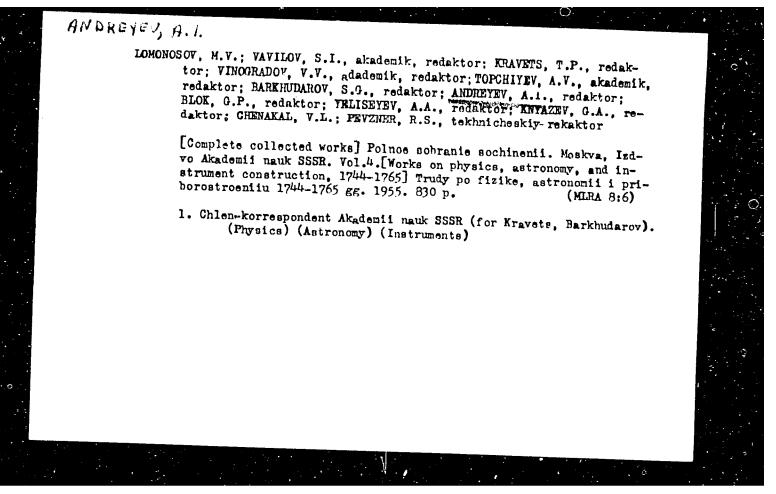
[Complete works] Polnoe sobranie sochinenii. Hoskva, Izd-vo Akad.

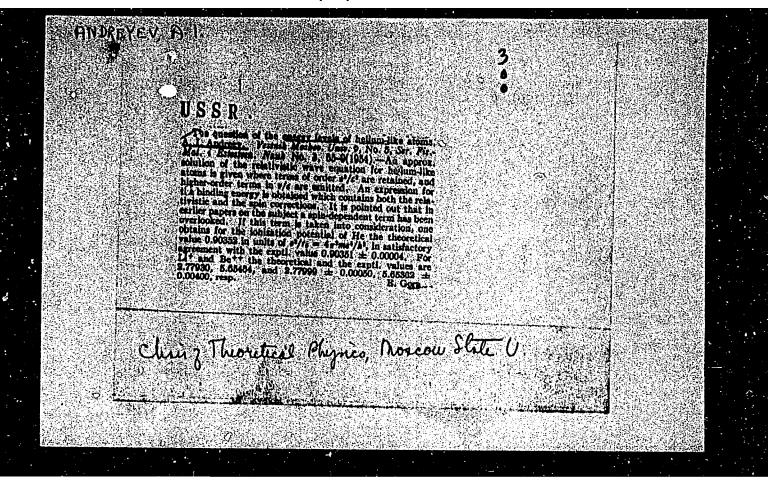
nauk SSSR. Vol.5. [Works in mineralogy, metallurgy, and mining,
1741-1763] Trudy po mineralogii, metallurgii i gornomu delu.

1741-1763 gg. 1954. 746 p. (MIRA 8:1)

1. Chlen-korrespondent AN SSSR (for Kravets, Barkhudarov)

(Mineralogy) (Metallurgy)





ANDREYEV, A. I.: "On the theory of acoustic oscillations in quantum mechanics".

Moscow, 1955. Min Education RSFSR. Moscow Oblast Pedagogical Inst.
(Dissertations for the degree of Candidate of Physicomathematical Sciences.)

SO: Knizhnava Letonis' No. 50. 10 December 1955. Moscow.

\$/124/61/000/012/018/038 D237/D304

AUTHOR:

Andreyev, A. I.

TITLE:

On the equations of classical hydrodynamics

in 1st and 2nd approximations

PERIODICAL:

Referativnyy zhurnal, Mekhanika, no. 12, 1961, 50, abstract 12B322 (Uch. zap. Mosk. obl. ped.

in-ta, 1960, 92, 151-159)

TEXT: Continuity equations and impulse equations of viscous fluid are linearized by expanding the density ν and velocity component v_{ν} into the series of form:

P = P0 + P1 + P2 + ..., VIL = VIL + VIL + ...

and are given in 1st and 2nd approximations. The origin of which coincides with electroacoustic pressure $P = P_0 v_{0\mu}^2$

Card 1/2

On the equations of ... S/124/61/000/012/018/038 D237/D304

magnetic pressure in Maxwell's equations is discussed. Abstracter's note: Complete translation.

L 19315-63 EWT(d)/FCC(w)/BDS AFFTC/IJP(C) 5/0271/63/000/007/B021/B021

SOURCE: RZh. Avtomatika, telemekhanika i vy*chislitel'naya tekhnika, Abs. 7 Bloo

AUTHOR: Andreyev, A. I.

TITLE: Devices for determining the distribution function of random processes

CITED SOURCE: Tr. Leningr. korablestroit. in-ta, vy*p. 38, 1962, 231-235

TOPIC TAGS: discriminator, distribution function, random process

TRANSLATION: A differential or amplitude-slot discriminator for obtaining a differential probability distribution law is examined. The device has two channels; both operate on the same slot, which produces corresponding relative accuracy when two random processes are investigated simultaneously. A block diagram is presented. Voltages which modulate (in modulators) gating pulses produced by a generator are applied to the inputs. The gate generator operates simultaneously on two channels, with gating pulses alternating on each channel. The pulses go from the modulators to a mixer, then from the mixer load to trigger circuits. The critical level is established by means of a special divider. The width of the slot is stabilized by a bridge circuit. A signal appears at the output of the anti-coincidence circuit

Card 1/2

L 19315-63

ACCESSION NR: AR3005866

only when the amplitude of the pulses is within an interval equal to the difference of the critical thresholds of the trigger circuits. There is a switching device which ensures distribution of gating pulses to the channels. The number of signal pulses my which strike the slot on the first channel is fixed by the memory unit of the first channel and the number of pulses on the second channel my is fixed by the memory unit of the second channel. The total number of pulses my which have been modulated is fixed in the memory unit. The distribution function is taken at points, since this procedure produces highest accuracy. The device described here permits investigation of signals with an amplitude of 0 to 150 volts, the range of investigated frequencies is from 1 cps to 100 kc, the frequency of the gating pulses is 50 kc, and the pulse duration is 1 microsecond. Yu. U.

DATE ACQ: 15Aug63

SUB CODE: GE, MM

ENCL: 00

Card 2/2

ANDREYEV, A.I.; SHISHKINA, Ye.Ya., veterin.vrach; GULIYEV, M.A., veterin.vrach; DUBAKIN, N.I.; FOMINA, A.Ya., kand.vaterin.nauk; SOKKAR, I.M.Kh., aspirant; KUZ'MIN, V.V., prof.; TSYGENBORD, O.A., veterin.vrach

Laboratory practice. Veterinariia 40 no.7s66-76 Jl '63.

(MIRA 16:8)

1. Direktor Akhtyrskoy mezhrayonnoy veterinarnoy laboratorii, Sumskaya obl. (for Andreyev). 2. Vsesoyuznyi institut eksperimental'noy veterinarii (for Shishkina, Fomina, Sokkar). 3. Respublikanskaya veterinarnaya laboratoriya Gruzimskoy SSR (for Guliyev).

4. Moskovskaya oblastnaya veterinarnaya laboratoriya (for Dubakin).

5. Leningradskiy veterinarnyy institut (for Kuz'min, TSygenbord).

(Veterinary medicine)

IJ 30003-65 BMT(1)/EMP(m)/EPF(n)-2/EWA(d) ACCESSION NR: AR4046881

Pd-1/Pu-4

S/0124/64/000/009/B047/B047

SOURCE: Ref. Zh. Mekhanika, Abs. 9B282

AUTHOR: Andrevey, A.L., Krazochkin, R.V.

TITLE: One accurate solution to a complete system of hydrodynamic equations

CITED SOURCE: Sb. Materialy 2 Konferentell po probl. Vzalmodeystiviye atmosf.

gidrosi, v sev. chasti Atlant, okeana, L., Leningr, un-t, 1964, 105-113

TOPIC TAGS: hydrodynamics, hydrodynamic equation, thermal disturbance, streamline

flow

TRANSLATION: An accurate solution is presented to the following problem

$$\eta \frac{\partial^{3} \dot{v}}{\partial x_{s}^{2}} + \frac{\partial \eta}{\partial x_{s}} \frac{\partial \sigma}{\partial x_{s}} = 0 \tag{1}$$

$$g\rho + \frac{\partial \rho}{\partial x_0} = 0 \tag{2}$$

$$\frac{\partial^2 T}{\partial x_2^2} + \frac{\partial x}{\partial x_2} \frac{\partial T}{\partial x_3} + \eta \left(\frac{\partial v}{\partial x_3} \right)^2 = 0$$

1/3 Card

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Here, x ₁ and x ₂ are	coordinates; the x_1 axis runs horizontally, the x_2 axi mponent along axis $x_1, x_2 =$ density, $g =$ acceleration	s vertically up-
	t conquotivity. A = coefficient of viscosity. T = temp	oue to gravity, erature. The
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1 30003-65 ACCESSION NR: AR4046881

$$0 = \frac{v_{i-1}}{1-v_{i-1}} \rho_{ij} \left(e^{\beta x_i} - e^{-\beta H} \right) \tag{7}$$

$$p = p_0 + \frac{p_{\text{eff}}}{\alpha} \left(e^{-\alpha x_1} - 1 \right) \tag{8}$$

$$T = \frac{1}{1 - e^{-\gamma H}} \left[T_e - T_H + \frac{\eta_e}{\kappa_e} \frac{\beta}{\beta + \gamma} \sigma_0^2 \frac{1 - e^{-(\beta + \gamma)H}}{(1 - e^{-\beta H})^4} \right] e^{\gamma x_0} -$$

$$\frac{\eta_{0}}{-\frac{1}{24}} \frac{\beta}{\beta + \gamma} \frac{|v|}{(1 - e^{-\beta H})^{2}} e^{(\beta + \gamma) E_{0}} - \frac{1}{1 - e^{-\gamma H}} \left[T_{0} e^{-\gamma H} - \frac{1}{1 - e^{-\gamma H}} \right]$$

$$e^{-\gamma H} = \frac{1}{2}$$

$$(9)$$

-7H+ 10 B 0 6-1H

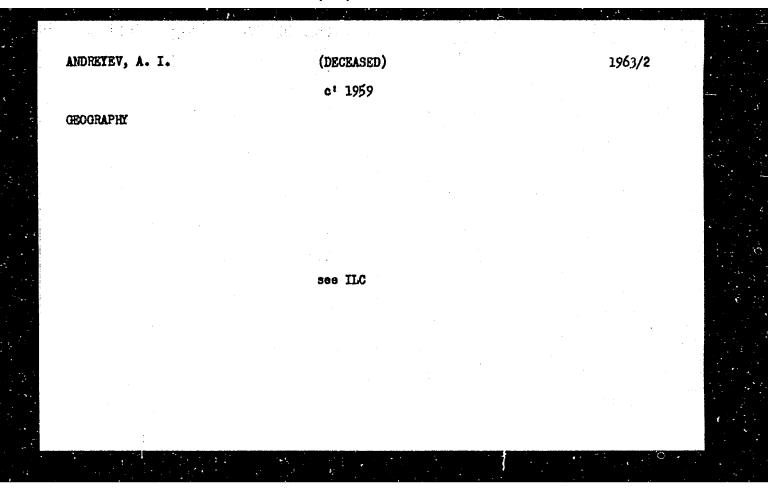
Values for the heat flux vector, energy flux density vector and momentum flow density tensor were computed on the basis of equations 7 through 9. The derived solution corresponds in its physical sense to a streamline flow of liquid along axis x_1 , resulting from a constant surface force (stipulating an exponential variation of the liquid's heat conductivity and viscosity with depth). The authors also consider a problem on heat wave propagation in liquids at rest and calculate a trajectory for the travel of thermal disturbances in sea water. V.M. Kamenkovich.

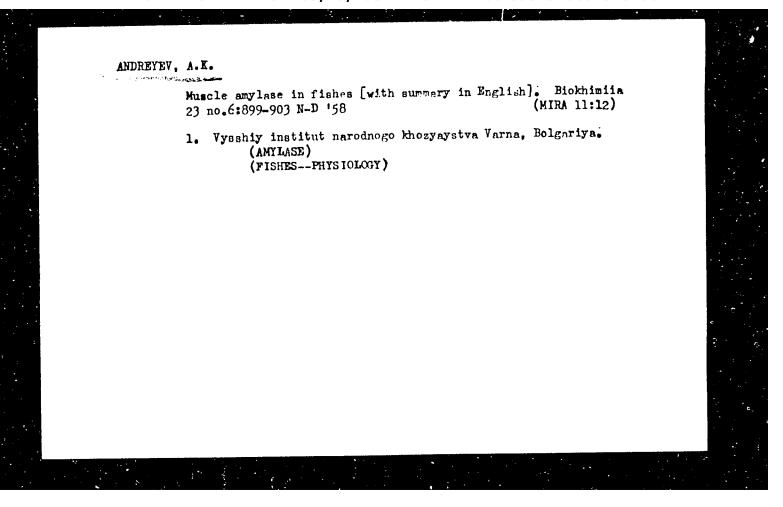
Cord 3/3

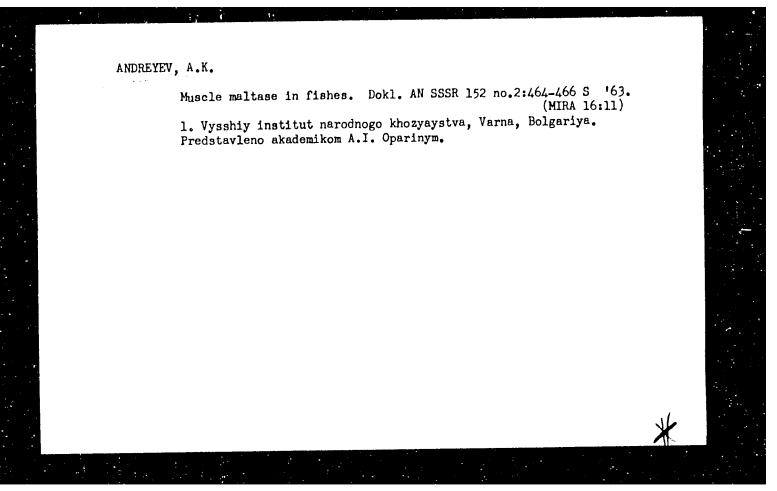
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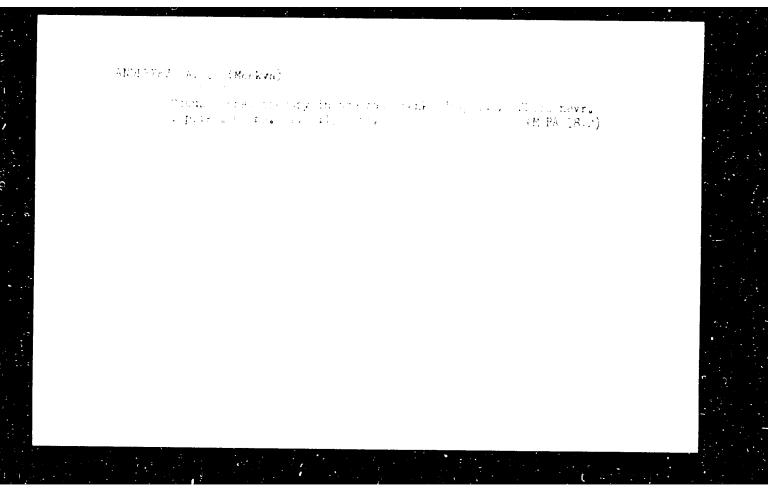


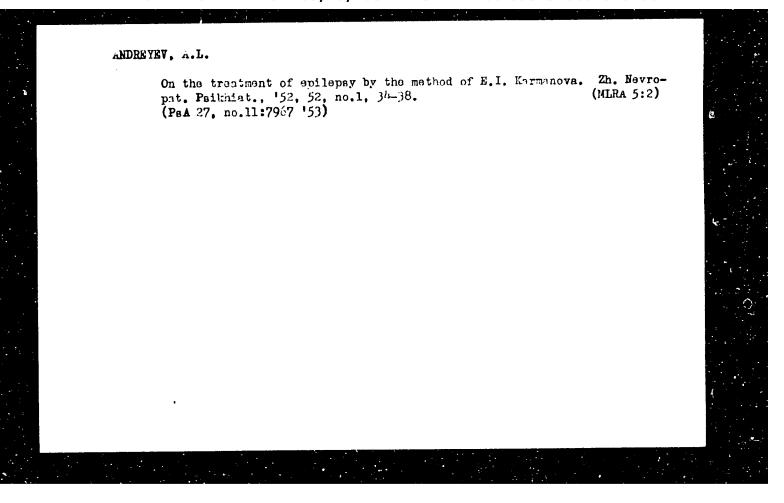


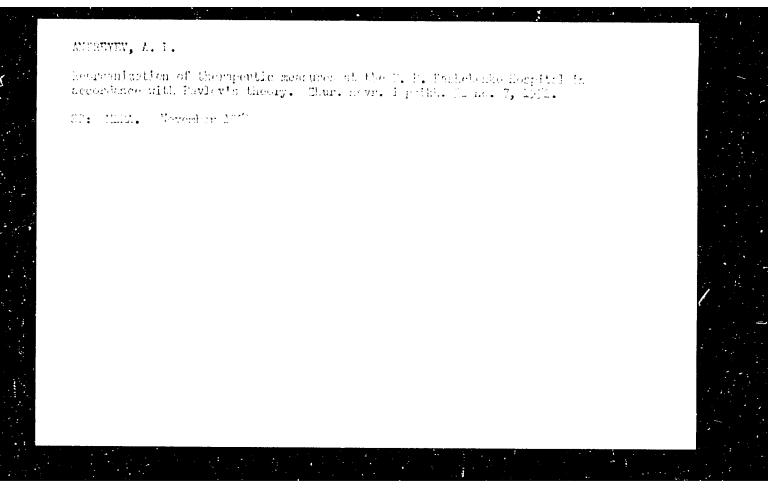
ANDRETEV, Aleksey Kus'mich; LEVCHUK, Igor' Vesil'yevich; PAVPEROV, V., red.; TELEGINA, T., tekhn.red.

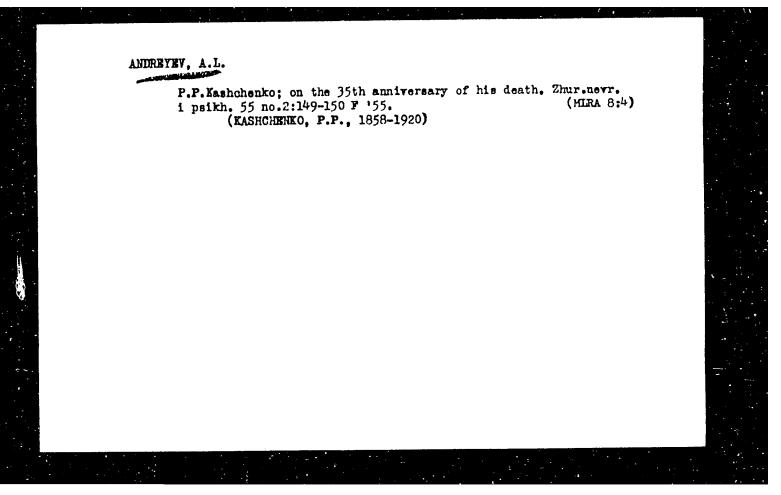
[Differential credit and payment system; from the work practice of State Bank branches in Ryasen Province] Differentsirovannyi reshim kreditovaniia i raschetov; iz opyta reboty uchreshdenii Goabanka Riazanskoi oblasti. Moskva, Gosinizdat, 1959. 51 p.

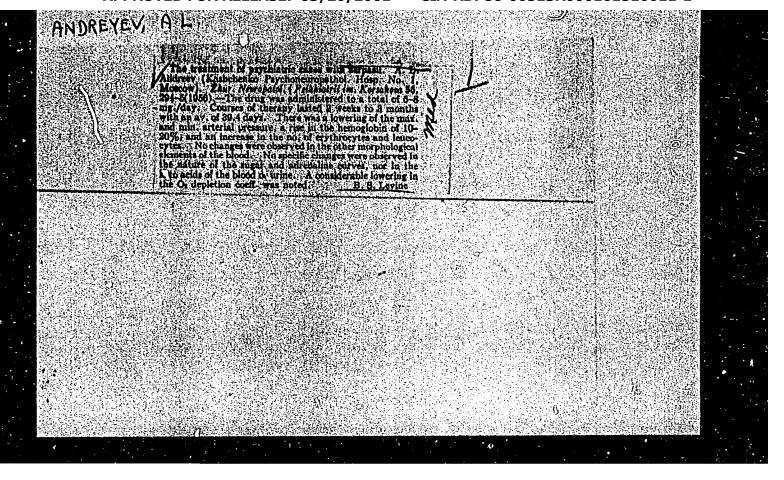
(Ryasen Province-Banka and banking)



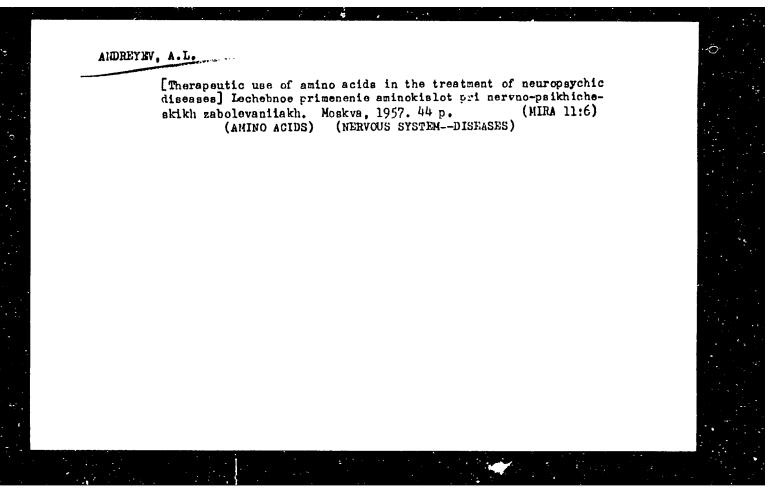


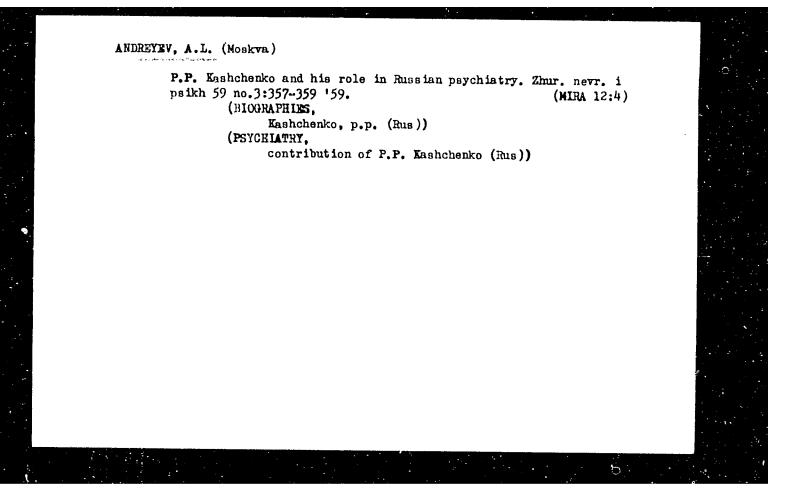


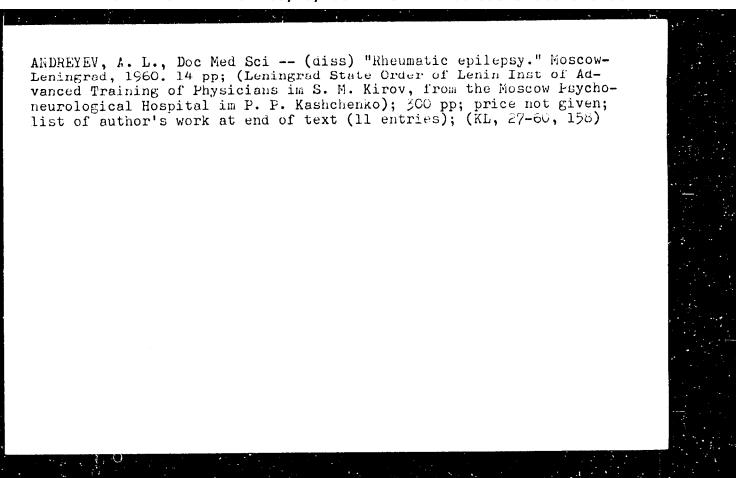


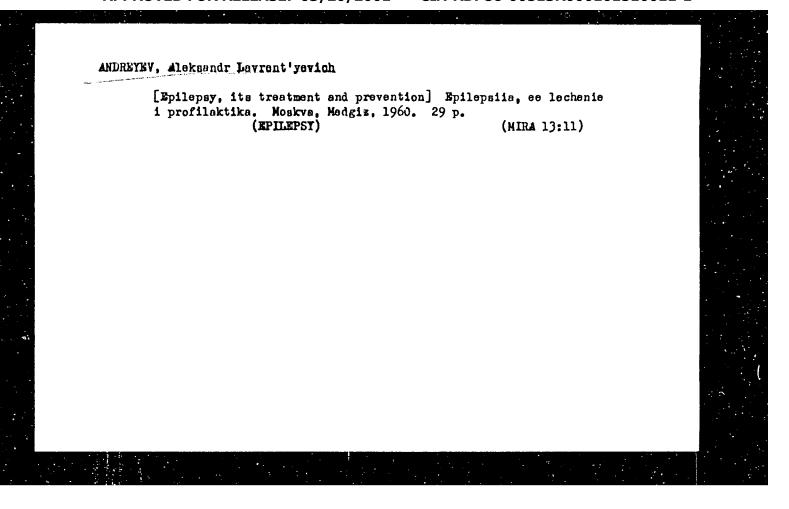


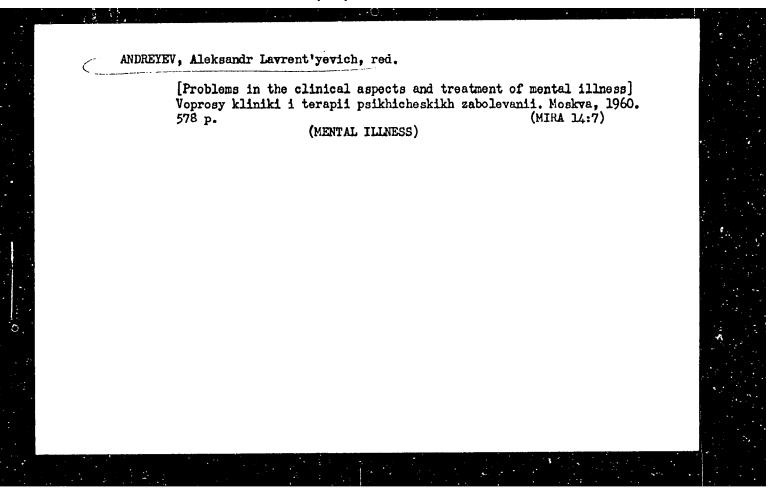
Development of cerebral rheumatism in a 7-year-old child. Pediatriia 39 no.3:83-84 Ny-Je '56. (MIRA 9:9) 1. Is 2-y Sofiyskoy gorodskoy bol'nitsy (Bolgariya) (RHEWMATISM, compl. encephalitis & endocarditis in child) (ENCAPHALITIS, eticl. and pathogen. rheumatism in child, with endocarditis) (ENDOCAPHIS, eticl. and pathogen. rheumatism in child, with encephalitia)

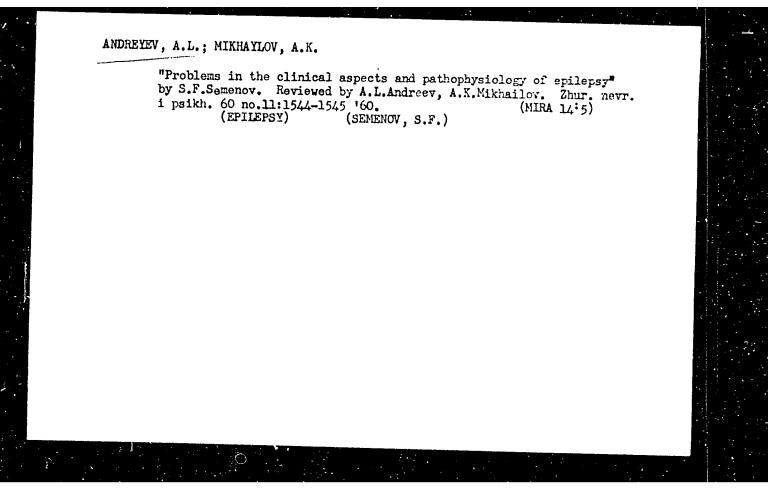












ANDREYEY, A.L., doktor med. nauk, otv. red.; IVANOV, D.D., kand. med. nauk, zam. otv. red.;

[Chemical and morphological bases of biogenic treatment for nervous and mental diseases] Khimio-morfologicheskie osnovy biogenoi terapii nervno-psikhicheskikh zabolevanii. Moskva, Mosk. nauchn. ob-vo nevropatologov i psikhiatrov. Vol.l. 1961. 185 p. (NIRA 14:8) (MENTAL ILLNESS)) (TISSUE EXTRACTS) (FROTEINS—THERAPEUTIC USE)

S/762/61/000/000/025/029

AUTHOR: Andreyev, A. L.

TITLE: Casting procedure for large titanium-alloy ingots.

SOURCE: Titan v promyshlennosti; sbornik statey. Ed. by S. G. Glazunov.

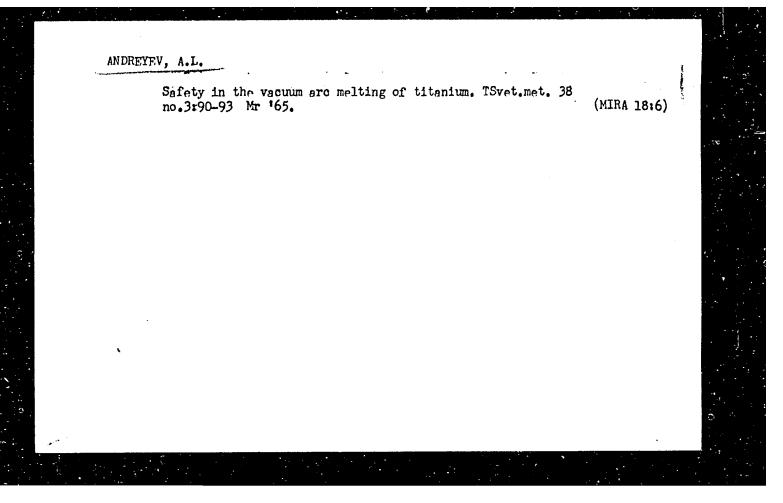
Moscow, 1961, 266-274.

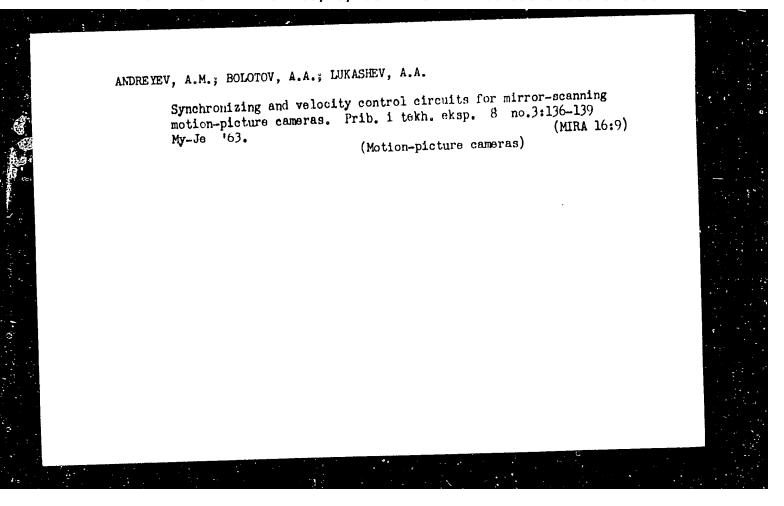
TEXT: The paper describes the experimental casting of several batches of ingots 460-mm diam (gross weight 1,250 kg) and 620-600-mm diam (GW 2,000 kg) in existing arc furnaces of the UON-334 (TsEP-334) type and ad-hoc built welded Cu crystallizers 470 and 630 mm (later reduced) diam. FIIH-550 (GPN550) generators were used. The procedure employed 200-mm diam 250-kg pressed electrodes in a first remelt to 380-mm diam, a second remelt to 460-mm diam, and a third remelt to 620-mm diam. Use of a single generator (6500 a, 27-28 v) required appx. 11 hrs for a large remelt, and the resulting quality was unsatisfactory. With two GPN-550 generators in parallel and improved short-circuit protection, 12,000 a at 32-35 v became available, and 620-mm remelts were performed in about 6 hrs, including the time required to eliminate the shrinkage cavity. Maintenance of constant current intensity permitted operation at lower voltage, with reduced electrode voltage losses, reduced linear rate of fusion with increasing diameter, and quieter fusion, which in turn permitted the use of smaller arc gaps without fear of short circuits otherwise evoked by splashing. The fusion-weight rate is directly proportional to the current. At first, the magnetic field created by the positive bus

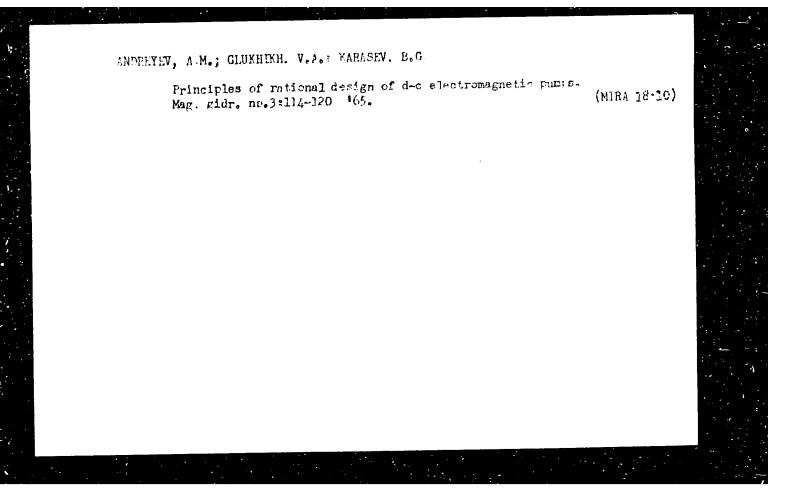
Card 1/4

Casting procedure for large titanium-alloy ingots. S/762/61/000/000/025/029

deflected the arc off center; the resulting asymmetry of the melting process was eliminated by placing a steel shielding over the solenoid. The quality efficiency (in terms of the total weight cast) was 89.9% in 600-mm diam ingots. The specific power consumption (kwh/kg) and efficiency (30.9W/IV, where W is the fusion weight rate) for various melts are tabulated. Conclusions: The magnitude of the arc gap and the voltage at which a stable operation of the jusion is achieved, increase with increasing linear fusion rate and with decreasing electrode diameter. The weight rate in a steady-state fusion process increases comparatively little with decreasing length of the melting electrode; only during the initial, unsteady, process period is the fusion rate significantly smaller, especially with ingots of large size. The mean weight rate of fusion is determined by the current intensity and depends but little on the diameter of the ingot (the rate of fusion of 460-mm diam ingots is some 10% greater than that of 380-mm diam ingots from a 280-mm diam electrode, but the rate of fusion of 620-mm diam ingots is 10% smaller because of the time consumed during the initial fusion period). The furnace efficiency in the smelting of 460-mm diam ingots is 5.5% higher than during the smelting of 380-diam ingots. The furnace efficiency decreases and the specific power consumption increases with increasing difference between electrode diam and ingot diam; this is attributed to increased heat losses and the increased duration of the initial, unsteady, process period occasioned by the increased electrode diam. There are 6 figs. and 2 tables. ASSOCIATION: None given. No references.







ANDREYEV, A.M.; NIKITIN, A.M., inzh., retsenzent; PETUKHOVA, G.N., red.izd-va; DEMKINA, N.F., tekhn. red.

[Planning and organization of work according to a schedule; practice of machinery manufacturing enterprises]
Planirovanie i organizatsiia raboty po grafiku; opyt mashinostroitel rykh predpriiatii. Moskva, Mashgiz, 1963.

161 p. (MIRA 17:2)